

3KTECH.001A

Serial No.: 10/797,985

Filing Date: March 9, 2004

Proposed Claim Amendments

NOT FOR ENTRY IN THE FILE

WHAT IS CLAIMED IS:-

47. An apparatus on a vehicle for collecting pollutant particles that are residing on a roadway surface, said vehicle having one or more tires that carry the vehicle along a roadway and contact said roadway, the apparatus comprising:

an element configured to receive particles from a spray of pollutant particles that are liberated from said roadway surface by the contact between a rotating tire of said vehicle and said roadway surface as the vehicle moves along said roadway, said element comprising a material configured to collect said particles

wherein said element is affixed to said vehicle in a location such that said element receives said spray of pollutant particles that are liberated from the roadway surface.

48. The apparatus of claim 47, wherein said element is attached to a portion of a wheel well of said vehicle.

49. The apparatus of claim 47, wherein said material is configured to collect particles that are less than about 10 microns in diameter.

50. The apparatus of claim 47, wherein said material is configured to collect particles that are less than about 5 microns in diameter.

51. The apparatus of claim 47, wherein said material is configured to collect particles that are less than about 2.5 microns.

52. The apparatus of claim 47, wherein said material is configured to collect particles comprising hydrocarbons and heavy metals.

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53. The apparatus of claim 47, wherein said material is configured to collect particles from brake pads.
54. The apparatus of claim 47, wherein said material comprises a filter.
55. The apparatus of claim 47, wherein said material comprises a pad.
56. The apparatus of claim 47, said element is one or more electronically charged plates.
57. The apparatus of claim 47, wherein said material comprises binding agents to bind particles in said spray of pollutant particles to said material when said particles contact said element.
58. The apparatus of claim 48, wherein said element is attached to a surface of said wheel well such that said element is positioned substantially between a surface of said wheel well and said rotating tire of said vehicle.
59. The apparatus of claim 47, wherein said element is attached to a mud flap of said vehicle.
60. The apparatus of claim 47, wherein said element is positioned behind a portion of the surface of a wheel well.
61. The apparatus of claim 47, wherein said element is attached to the underside of said vehicle.
62. The apparatus of claim 47, wherein said element is attached to a splash guard of said vehicle.
63. The apparatus of claim 47, further comprising a frame configured to hold said element to said vehicle.

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64. The apparatus of claim 47, wherein said material is oleophilic.
65. The apparatus of claim 47, wherein said material is porous
66. The apparatus of claim 47, wherein said material is hydrophobic.
67. A method for collecting pollutant particles liberated from a roadway surface, the method comprising:
 - positioning an element to receive a spray of particles that are liberated from the roadway by a tire of a vehicle as said vehicle moves along the roadway;
 - contacting the roadway surface with a tire of said vehicle;
 - rotating said tire to generate a spray of particles liberated from the roadway surface;
 - receiving said spray of particles on said element; and
 - collecting at least a portion of said spray of particles received on said element.

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